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during the year. The first volume will appear in 1900, and will contain reports of all the publications of 1899. Not wishing to overlook anything, I should be much obliged if all authors of such publications, appearing as single books or articles in journals not usually destined and used for astronomical publications, would kindly communicate them to me.

WALTER F. WISLICENUS, Ph. D.,
Professor at the University.

STRASSBURG (ELSASS), Nicolausring 37.
January, 1899.

ASTRONOMICAL TELEGRAMS.

(Translations.)

CAMBRIDGE, Mass., March 3, 1899.
To Lick Observatory: (Received 9:50 P.M.)

Kiel cables asking Lick please to look for TUTTLE's periodic comet.* Please telegraph any observation.

(Signed) EDWARD C. PICKERING.

LOWE OBSERVATORY, Echo Mt., Cal., March 3, 1899.
To Lick Observatory: (Received 12:00 P.M.)

Comet in R. A. 3^h 45^m; Decl. — 29°. Large, very bright, short tail. (Signed) LEWIS SWIFT.

BOSTON, Mass., March 4, 1899.
To Lick Observatory: (Received 12:38 P.M.)

SWIFT announces bright naked-eye comet. R. A. 3^h 45^m; Decl. — 29°. Short tail, slow.

(Signed) JOHN RITCHIE, JR.

MT. HAMILTON, March 4, 1899.
To Harvard College Observatory: (Sent 10:02 P.M.)

Comet Swift was observed by W. J. HUSSEY on March 4.6356 G. M. T. in R. A. 3^h 48^m $4^s.3$; Decl. —27° 7′ 52″.

MT. HAMILTON, March 6, 1899.
To Harvard College Observatory: (Sent 10:30 A.M.)

Comet Swift was observed by W. J. HUSSEY on March 5.6478 G. M. T. in R. A. 3^h 42^m $12^s.6$; Decl. —25° 36′ 54″.

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* The search ephemeris given in this telegram is here omitted.

MT. HAMILTON, March 6, 1899.

To Harvard College Observatory: (Sent 9:23 P.M.)

Comet Swift was observed by W. J. HUSSEY on March 6.6523 G. M. T. in R. A. $3^h 36^m 44^s.5$; Decl. $-24° 8' 32''$.

CAMBRIDGE, Mass., March 7, 1899.

To Professor JAMES E. KEELER: (Received 6 P.M.)

Kiel cables that a faint comet was discovered by WOLF on March 5.325 G. M. T. in R. A. $1^h 16^m$; Decl. $+31° 38'$. Daily motion in R. A. $+56'$; in Decl. $-14'$. Probably TUTTLE'S periodic comet. (Signed) EDWARD C. PICKERING.

CAMBRIDGE, Mass., March 7, 1899.

To Lick Observatory: (Received 9:07 P.M.)

DAVIS telegraphs that Comet Swift was observed by BROWN [at Washington], on March 5.5467 G. M. T. in R. A. $3^h 42^m 46^s.9$; Decl. $-25° 45' 49''$. EDWARD C. PICKERING.

MT. HAMILTON, March 8, 1899.

To Harvard College Observatory: (Sent 12:08 P.M.)

Comet Wolf was observed by C. D. PERRINE on March 7.6569 G. M. T. in R. A. $1^h 24^m 51^s.3$; Decl. $+31° 7' 14''$.

MT. HAMILTON, March 8, 1899.

To Harvard College Observatory: (Sent 4:51 P.M.)

Elements and ephemeris* of Comet *a* (Swift) were computed by W. J. HUSSEY, as follows:

$$T = \text{G. M. T. April } 13.26.$$

$$\left.\begin{array}{l} \omega = 4° \; 54' \\ \Omega = 23 \;\;\; 9 \\ i = 146 \;\;\; 4 \end{array}\right\} 1899.0$$

$$\text{Natural } q = 0.3447.$$

CAMBRIDGE, Mass., March 9, 1899.

To Professor JAMES E. KEELER: (Received 5:00 P.M.)

Kiel cables a corrected ephemeris* for Comet Tuttle, which was computed by J. RAHTS.

(Signed) EDWARD C. PICKERING.

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* The ephemeris is here omitted.

AWARD OF THE GOLD MEDAL OF THE ROYAL ASTRONOMICAL SOCIETY.

At the anniversary meeting of the Royal Astronomical Society on Friday last [February 10, 1899] Mr. FRANK McCLEAN, F. R. S., was awarded the Gold Medal of the Society for his photographic survey of stars in both hemispheres, and other contributions to the advancement of astronomy.—*Nature.*

A NEW SATELLITE OF *SATURN.*

A new satellite of the planet *Saturn* has been discovered by Professor WILLIAM H. PICKERING, at the Harvard College Observatory. This satellite is three and a half times as distant from *Saturn* as *Iapetus*, the outermost satellite hitherto known. The period is about seventeen months, and the magnitude fifteen and a half. The satellite appears upon four plates taken at the Arequipa Station with the Bruce photographic telescope. The last discovery among the satellites of *Saturn* was made half a century ago, in September, 1848, by Professor GEORGE P. BOND, at that time Director of the Harvard College Observatory.

EDWARD C. PICKERING.

HARVARD COLLEGE OBSERVATORY.
March 17, 1899.

A LABORATORY MANUAL IN ASTRONOMY. By MARY E. BYRD, A. B., Director of the Observatory, Smith College. Ginn & Co. Boston, IX + 273 pp. $1.35.

The title of this little book indicates very accurately its aim and scope. It lays no claim to the name of a text-book in astronomy, and gives practically no definitions of astronomical terms nor descriptions of the usual appliances of a working observatory. It is designed to be used in connection with a standard text-book (like YOUNG'S or NEWCOMB'S), in precisely the same manner as a laboratory manual in chemistry or in physics would be used — to suggest, outline, and illustrate experiments to be performed by the student himself.

In her preface the author says: "Whether the study of astronomy is taken up first in secondary schools or colleges, years of experience have convinced me that it is best to devote at least one term to general astronomy and naked-eye observa-